

	Hits	Search Text
1	2	("4666859").PN.
2	6	"3732504"
3	118	((ANALY\$4 OR MEASUR\$4 OR ESTIMAT\$4 OR EVALUAT\$4 OR DETERMIN\$4 OR DETECT\$4 OR MONITOR\$4 OR TEST\$) near3 (ALDEHYDE\$2 OR FORMALDEHYDE OR ACETALDEHYDE) ) with polymer\$2
4	2	("4471055").PN.
5	8	"2809475"
6	16	(test near3 strip\$2) with aldehyde\$2
7	2	("3645696").PN.
8	82	(test near3 strip\$2) with foam\$2
9	0	(test near3 strip\$2) with (foam\$2 near3 (carrier\$2 or sipport\$2))
10	6	reagent\$2 with (foam\$2 near3 (carrier\$2 or sipport\$2))
11	2	("4772561").PN.
12	522	(test near3 strip\$2) with adhesive
13	56	((test near3 strip\$2) with adhesive) and ("single sided" or "double sided")
14	13	(reagent\$2 near4(particulate\$2 or particle\$2)) with adhesive
15	1	((reagent\$2 near4(particulate\$2 or particle\$2)) with adhesive) and alumina
16	31	(reagent\$2 near4(particulate\$2 or particle\$2)) with alumina
17	0	((reagent\$2 near4(particulate\$2 or particle\$2)) with alumina) and adhesive
18	13	(reagent\$2 near4 (particulate\$2 or particle\$2)) near3 alumina
19	13	reagent\$2 near4 (particulate\$2 or particle\$2) near3 alumina
20	539	carrier near4 (particulate\$2 or particle\$2) near3 alumina
21	17	(carrier near4 (particulate\$2 or particle\$2) near3 alumina) and adhesive
22	266	(carrier near4 (particulate\$2 or particle\$2) near3 alumina) and test

	Hits	Search Text
23	294	(carrier near4 (particulate\$2 or particle\$2) near3 alumina) and support
24	190	((carrier near4 (particulate\$2 or particle\$2) near3 alumina) and test) and ((carrier near4 (particulate\$2 or particle\$2) near3 alumina) and
25	190	((carrier near4 (particulate\$2 or particle\$2) near3 alumina) and test) and ((carrier near4 (particulate\$2 or particle\$2) near3 alumina) and support)) and (test\$2 or analyte\$2 or reagent\$2)
26	2	(carrier near4 (particulate\$2 or particle\$2) near3 alumina) with (test\$2 or analyte\$2 or reagent\$2)
27	333	(carrier near4 (particulate\$2 or particle\$2) near3 alumina) and (test\$2 or analyte\$2 or reagent\$2)
28	264	((carrier near4 (particulate\$2 or particle\$2) near3 alumina) and (test\$2 or analyte\$2 or reagent\$2)) and support\$2
29	4	(carrier near5 (particulate or particle\$2 or bead\$2) near3 alumina) with (test\$2 or analyte\$2 or reagent\$2 or strip\$2)
30	2	("3412038").PN.
31	0	(alumina near2 particles) near5 carrier near5 reagent\$2
32	0	((alumina near2 particles) near6 carrier) with reagent\$2
33	1	((alumina near4 (particle\$2 or particulat\$3 or bead\$2)) near6 carrier) with reagent\$2
34	3	("3850525").PN.
35	1	((test near3 strip\$2) with adhesive) and ("single sided" or "double sided") and aldehydes
36	29	((test near3 strip\$2) with adhesive) and aldehydes
37	367	((test near3 strip\$2) near6 adhesive)
38	154	((test near3 strip\$2) near6 adhesive) ) and (particulate or particle\$2 or bead\$2)
39	7	((test near3 strip\$2) near6 adhesive) ) and (particulate or particle\$2 or bead\$2)) and ((particulate or particle\$2 or bead\$2) near4 (support\$2 or carrier\$2))
40	85	((test near3 strip\$2) near6 adhesive) and (mesh or microns)
41	5976	alumina with microns
42	1	(alumina with microns ) and ((test near3 strip\$2) near6 adhesive)
43	18	(alumina with microns ) and (test near3 strip\$2)
44	0	test with triazole with MBTH with pH

	Hits	Search Text
45	0	test with triazole with MBTH and pH
46	1	test with triazole with pH
47	1	test with triazole with "pH"
48	500	triazole with "pH"
49	178	( triazole with "pH") and test
50	31	triazole with "pH" with (solubility or soluble)
51	2353	adjust\$4 near3 "pH" near6 (solubility or soluble)
52	37	(adjust\$4 near3 "pH" near6 (solubility or soluble)) with (reagent\$2 or indicator\$2)
53	14	((test near3 strip\$2) near6 adhesive) and kaolin
54	0	(test near3 strip\$2) with kaolin
55	351	(test near3 strip\$2) and kaolin
56	1	(test near3 strip\$2) and (kaolin near4 (carrier\$2 or support\$2))
57	2	("5332548").PN.
58	1693	dye\$2 with (solubility or soluble) with pH
59	845	(dye\$2 with (solubility or soluble) with pH) and (adjust\$4 near4 pH)
60	500	dye\$2 near5 (solubility or soluble) near5 pH
61	263	(dye\$2 near5 (solubility or soluble) near5 pH) and (adjust\$4 near4 pH)
62	2947	(adhesive near3 tape) near7 support\$2
63	44	((adhesive near3 tape) near7 support\$2) with test
64	11	membran\$2 with film\$2 with gel\$2 with foam\$2
65	0	"heater mantle" with "heater block" with infrared with microwave
66	5794	infrared with microwave
67	293	( infrared with microwave) with heater

	Hits	Search Text
68	10102	((422/56-58) or (436/17) or (156/60,62.2,64,278-280,285)).CCLS.
69	2592	((((422/56-58) or (436/17) or (156/60,62.2,64,278-280,285)).CCLS.) and ("test strip" or indicator\$2 or detector\$2)
70	2567	(((((422/56-58) or (436/17) or (156/60,62.2,64,278-280,285)).CCLS.) and ("test strip" or indicator\$2 or detector\$2)) and (ANALY\$4 OR MEASUR\$4 OR ESTIMAT\$4 OR EVALUAT\$4 OR DETERMIN\$4 OR DETECT\$4 OR MONITOR\$4 OR TEST\$)
71	35	(((((422/56-58) or (436/17) or (156/60,62.2,64,278-280,285)).CCLS.) and ("test strip" or indicator\$2 or detector\$2)) and ((ANALY\$4 OR MEASUR\$4 OR ESTIMAT\$4 OR EVALUAT\$4 OR DETERMIN\$4 OR DETECT\$4 OR MONITOR\$4 OR TEST\$) near3 (ALDEHYDE\$2 OR FORMALDEHYDE OR ACETALDEHYDE) )
72	715	436/166

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ACCESSION NUMBER: 1966:433071 CAPLUS

DOCUMENT NUMBER: 65:33071

ORIGINAL REFERENCE NO.: 65:6175b-e

TITLE: Determination of aliphatic aldehydes; 3-methyl-2-benzothiazolone hydrazone hydrochloride (MBTM) method

AUTHOR(S): Hauser, Thomas R.

SOURCE: United States, Public Health Service Publication (1965), 999-AP-11, F-1-F-4  
CODEN: XPHPAW; ISSN: 0500-3148

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The MBTH method is applicable to the detn. of total water-soluble aliphatic aldehydes (measured as HCHO) in ambient air. The results of limited field testing show that as little as 2 ppb. aldehydes in air can be detd. when air is sampled at a rate of 0.5 l./min. over a 24-hr. period. The aldehydes in ambient air are collected in a 0.05% aq. MBTH soln. The resulting azine is then oxidized by a FeCl<sub>3</sub>-sulfamic acid soln. to form the blue cationic dye, which can be measured at 628 m.mu.. The av. collection efficiency of HCHO in air was 84% when air was sampled at a rate of 0.5 l./min. over a 24-hr. period in 35 ml. of collecting reagent. The collection efficiency as well as the sensitivity of the method may be increased or decreased depending upon the conditions selected for sampling. It was unnecessary to have a second bubbler connected in series in the sampling train. The molar absorptivity observed for HCHO at the wavelength max. of 628 m.mu. is 50,000. The Beer's Law study exhibited a linear relation for HCHO concns. 0.0-1.72 .mu.g./ml. of test soln. over an absorbance range 0.0-2.35 when 1.0 cm. cells were employed. The study also demonstrated excellent reproducibility in absorbance when duplicate samples were analyzed, and little, if any, deviation from the standard curve was observed over the entire concn. range reported. A reaction time of 1 hr. is selected for this procedure. The samples are stable enough for later analysis.